

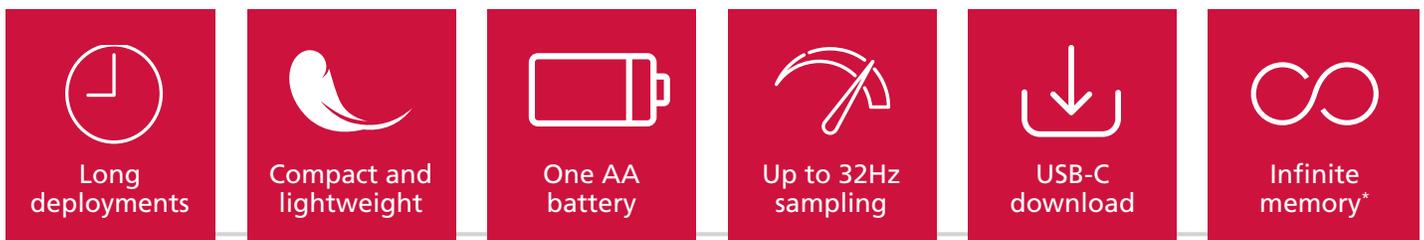
SMALL TWO-SENSOR LOGGER



COMPACT,
ACCURATE,
DEPENDABLE

The RBRduet⁴ T.D is a compact, lightweight, temperature and pressure logger designed for high-precision oceanographic measurements in demanding environments. It combines exceptional accuracy and resolution with extremely low power consumption, enabling multi-year deployments using any standard AA battery chemistry. Engineered for durability in harsh marine conditions, the RBRduet⁴ T.D delivers reliable, long-term performance across a wide range of oceanographic applications.

FEATURES



*not really, but we stopped counting at billions of samples.

Available configurations

- ▶ RBRduet⁴ T.D temperature and pressure; up to 2Hz continuous sampling
- ▶ RBRduet⁴ T.D|fast temperature and pressure; up to 32Hz continuous sampling
- ▶ RBRduet⁴ T.D|tide32 temperature and pressure; continuous sampling or tidal averaging
- ▶ RBRduet⁴ T.D|wave32 temperature and pressure; continuous sampling, tidal averaging, or wave burst

Variants

- ▶ RBRduet⁴ T.D|deep temperature; depths up to 10000m
- ▶ RBRduet⁴ T.D|2x temperature; double the autonomy of RBRduet⁴ T.D

SMALL TWO-SENSOR LOGGER

COMPACT, ACCURATE, DEPENDABLE

The RBRduet⁴ T.D is built for long, accurate field use with low effort. Delivering high accuracy in a compact, field-ready form factor, it combines lab-grade performance with deployment simplicity. USB-C enables fast configuration and data download, while support for standard AA battery chemistry provides global power options. Paired with Ruskin software for intuitive setup and retrieval, the RBRduet⁴ T.D is designed for exceptionally long deployments, using RBR's latest ultra-low-power electronics to maximize endurance without compromising precision. Data are stored in RSK format and are accessible using RBR's open Python and MATLAB toolboxes, enabling direct integration into workflows and automated processing pipelines. Ruskin provides Excel exports and publication-ready charts in PNG and PDF formats, ensuring straightforward reporting, analysis, and archiving.

Specifications

Physical

Storage	Infinite memory*		
Power	Any AA cell		
Communication	USB-C		
Clock drift	±60 seconds per year		
Depth rating	up to 1700m (plastic) up to 10000m (Ti)		
Diameter	25.4mm (plastic), 25mm (Ti)		
Length	<u>1x cell</u>	<u>2x cell</u>	
	247mm (plastic)	340mm (plastic)	
	278mm (Ti)	348mm (Ti)	
Weight in air	170g (pl)	390g (Ti)	205g (pl) 485g (Ti)
	in water		
	30g (pl) 255g (Ti)	30g (pl) 315g (Ti)	

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Temperature

Range*	-5°C to 35°C
Initial accuracy	±0.002°C
Resolution	<0.00005°C
Typical stability	±0.002°C / year
Time constant	<0.1s fast, <1s standard, <15s slow

*A wider temperature range is available upon request.

Pressure

Range ¹	20 / 100 / 300 / 1000dbar
Accuracy ²	±0.05% full scale
Resolution	<0.001% full scale
Typical stability	±0.05% full scale / year
Time constant	<10ms

¹Recommended depth for wave measurements is less than 100m.

²±0.01% full scale available is available upon request.

Deployment estimates

RBRduet⁴ T.D

Sampling rates	24hr to 1s, and 2Hz		
Autonomy	Speed	Time	# samples
	1x cell	5s	713 days
2x cell	2Hz	99 days	17.1 million
	5s	3.9 years	26.4 million
2Hz	199 days	34.3 million	

RBRduet⁴ T.D |fast32

Sampling rates	24hr to 1s, and 2Hz, 4Hz, 8Hz, 16Hz, 24Hz, or 32Hz		
Autonomy	Speed	Time	# samples
	1x cell	32Hz	14 days
2x cell	32Hz	28 days	78 million

Deep variant

Explore up to 10km deep with RBRduet⁴ T.D|deep

2x variant

Double autonomy with RBRduet⁴ T.D|2x



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